Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Currently amended) An air quality system for removing a pollutant from an air stream, and for providing cleansed air to an interior air space, said air quality system comprising:

at least three air cleaner units;

wherein each of said at least three air cleaner units comprises: at least one photocatalytic oxidation unit; and

first and second discrete adsorbent units;

wherein said first adsorbent unit includes a first adsorbent material, the first absorbent material having a surface area greater than 1000 within 1001 m^2/g to 1499 m^2/g and having pore diameters within 6 Å to 600 Å;

wherein said second adsorbent unit includes a second adsorbent material, the second absorbent material having a surface area within $\frac{1500 \, \text{m}^2}{\text{g}}$ $\frac{1501 \, \text{m}^2}{\text{g}}$ to 2500 m²/g and having pore diameters within 5 Å to 10 Å;

wherein said at least one photocatalytic oxidation unit is spaced from and located downstream from said first adsorbent unit and spaced from and located upstream from the second adsorbent unit;

wherein said first adsorbent unit is adapted to reversibly adsorb said pollutant from said air stream at a first concentration of said pollutant;

wherein said first adsorbent unit is further adapted to desorb said pollutant into said air stream at a second concentration of said pollutant;

wherein said second adsorbent unit is adapted to adsorb said pollutant from said air stream at the second concentration of the pollutant;

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a mix manifold in communication with each of said at least three air cleaner units:

wherein two of said at least three air cleaner units are spaced from and located upstream from said mix manifold;

wherein one of said at least three air cleaner units is spaced from and located downstream from said mix manifold; and

wherein air from said air cleaner units located upstream from said mix manifold is mixed with air emanating from said mix manifold and passed through said air cleaner unit located downstream from said mix manifold.

2-8. (Canceled)

9. (Previously Presented) The air quality system of claim 1, wherein said at least one photocatalytic oxidation unit comprises at least one photocatalytic panel, wherein said photocatalytic panel comprises a photocatalytic support, and wherein said photocatalytic panel comprises expanded aluminum.

- 10. (Canceled)
- 11. (Canceled)
- 12. (Currently Amended) The air quality system of claim $\underline{1}$ 10, wherein:

said first adsorbent material comprises an activated carbon fabric.

13. (Original) The air quality system of claim 1, wherein said interior air space is within an aircraft.

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14-16. (Canceled)

- 17. (Previously presented) The air quality system of claim 1, wherein each of said at least three air cleaner units further comprises a particulate filter upstream from said at least one photocatalytic oxidation unit and said first adsorbent unit.
- 18. (Previously presented) The air quality system of claim 1, wherein each of said at least three air cleaner units is adapted for operation at a constant temperature.
- 19. (Previously presented) The air quality system of claim 1, wherein each of said at least three air cleaner units is adapted for operation at ambient temperature.

20-64. (Canceled)

65. (Previously Presented) The air quality system of claim 1, wherein:

said at least one photocatalytic oxidation unit comprises a plurality of photocatalytic panels and a plurality of UV sources, and

said plurality of photocatalytic panels and said plurality of UV sources are arranged linearly and parallel to each other, with each of said plurality of UV sources alternating with each of said plurality of photocatalytic panels.

66. (Canceled)

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